



Express Mailing Label No. EL 996 741 638 US

PATENT APPLICATION
Docket No: 15436.247.45.1.2

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of)
)
Jeffrey D. Walker et al)
)
Serial No.: 10/017,201) Art Unit
) 3663
Filing Date: December 14, 2001)
)
Confirmation No.: 6333)
)
For: OPTICAL RECEIVER INCLUDING A LINEAR)
SEMICONDUCTOR OPTICAL AMPLIFIER)

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT
UNDER 37 C.F.R. § 1.97

Commissioner for Patents
PO Box 1450
Alexandria, Virginia 22313-1450

Sir:

Please find, pursuant to 37 C.F.R. § 1.98(a)(1), the enclosed Form PTO-1449 which contains a list of all patents, publications, or other items that have come to the attention of one or more of the individuals designated in 37 C.F.R. § 1.56(c). While no representation is made that these references may be "prior art" within the meaning of that term under 35 U.S.C. §§ 102 or 103, the enclosed listed references are disclosed so as to fully comply with the duty of disclosure set forth in 37 C.F.R. § 1.56.

Moreover, while no representation is made that a specific search of office files or patent office records has been conducted or that no better art exists, the undersigned attorney of record believes that the enclosed art is the closest to the claimed invention (taken in its entirety) of which the undersigned is presently aware, and no art which is closer to the claimed invention (taken in its entirety) has been knowingly withheld.

In accordance with 37 C.F.R. §§ 1.97 and 1.98, a copy of each of the listed references or relevant portion thereof that is not a US patent document is also enclosed.

12/16/2004 NROCHA1 00000008 10017201

01 FC:1806

180.00 OP

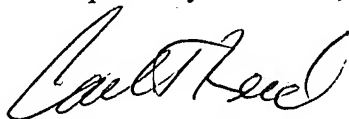
Statement of Relevance of References Listed
Unaccompanied by English Translation
Under 37 CFR § 1.98(a)(3)

In accordance with 37 CFR § 1.98(a)(3), the following concise explanation of the relevance of each listed reference that is not in the English language and unaccompanied by a translation into English is provided.

Japanese Application No. JP02000012978A: PROBLEM TO BE SOLVED: to amplify a signal light having nearby wavelength of that of a laser oscillation light by outputting only an amplified signal light, without the use of an optical filter in a optical amplifier using an operational principle of a traditional gain clamp semiconductor optical amplifier.

Dated this 13th day of December 2004.

Respectfully submitted,



CARL T. REED
Attorney for Applicant
Registration No. 45,454
Customer No. 022913
Telephone No. 801.533.9800

CTR:dfw

WA\15436\247.45.1.2\DFW0000012550V001.DOC



Express Mailing Label No. EL 996 741 638 US

PATENT APPLICATION
Docket No: 15436.247.45.1.2

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Jeffrey D. Walker et al

Serial No.: 10/017,201

Filing Date: December 14, 2001

Confirmation No.: 6333

For: OPTICAL RECEIVER INCLUDING A LINEAR
SEMICONDUCTOR OPTICAL AMPLIFIER

)
)
)
)
) Art Unit
) 3663
)
)
)
)
)
)

CERTIFICATE OF EXPRESS MAIL UNDER 37 C.F.R. § 1.10

I hereby certify that the following documents are being deposited with the United States Postal Service as Express Mail Mail, postage prepaid, in an envelope addressed to: Commissioner for Patents, PO Box 1450, Alexandria, Virginia 22313-1450, on the 13th day of December 2004.

- Transmittal for Supplemental Information Disclosure Statement (3 pages)
- Supplemental Information Disclosure Statement (2 pages)
- Form PTO-1449 listing 49 references (4 pages)
- A copy of each of the references listed on the Form PTO-1449
- Form PTO-2038 submitting Credit Card Payment in the amount of \$180
- Postcard

Respectfully submitted,

CARL T. REED
Attorney for Applicant
Registration No. 45,454
Customer No. 022913
Telephone No. 801.533.9800

CTR:dfw

W:\15436\247.45.1.2\DFW0000012550V001.DOC

Applicant: Jeffrey D. Walker et al.

Serial No.: 10/017,201

Filing Date: December 14, 2001

For: OPTICAL RECEIVER INCLUDING A LINEAR SEMICONDUCTOR OPTICAL AMPLIFIER



Confirmation No.: 6333

Att'y Docket No.: 15436.247.45.1.2

Group: 3663

SUPPLEMENTAL INFORMATION DISCLOSURE CITATIONS MADE BY APPLICANTU.S. Patent Documents

<u>Examiner Initial*</u>	<u>Document Number</u>	<u>Issue Date</u>	<u>Name</u>
___ 1	4,794,346	12/27/1988	Miller
___ 2	5,299,054	03/29/1994	Geiger
___ 3	5,305,412	04/19/1994	Paoli
___ 4	5,604,628	02/18/1997	Parker et al.
___ 5	5,654,822 B1	08/05/1997	Ducellier et al.
___ 6	5,673,141 B1	09/30/1997	Gambini
___ 7	5,748,653	05/05/1998	Parker et al.
___ 8	5,754,571	05/19/1998	Endoh et al.
___ 9	5,771,320	06/23/1998	Stone
___ 10	5,778,132	07/07/1998	Csipkes et al.
___ 11	5,805,322	09/08/1998	Tomofuji
___ 12	5,999,293	12/07/1999	Manning
___ 13	6,061,156	05/09/2000	Takeshita et al.
___ 14	6,128,115	10/03/2000	Shiragaki et al.
___ 15	6,215,583 B1	11/13/2001	Chen et al.
___ 16	6,243,407 B1	06/05/2001	Mooradian
___ 17	6,317,531 B1	04/10/2001	Lagerstrom et al.
___ 18	6,333,799 B1	12/25/2001	Bala et al.
___ 19	6,335,992 B1	01/01/2002	Bala et al.
___ 20	6,347,104 B1	02/12/2002	Dijaili et al.
___ 21	6,445,495 B1	09/03/2002	Walker et al.

Examiner:

Date Considered:

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609, draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Applicant: Jeffrey D. Walker et al.

Confirmation No.: 6333

Serial No.: 10/017,201

Att'y Docket No.: 15436.247.45.1.2

Filing Date: December 14, 2001

Group: 3663

For: OPTICAL RECEIVER INCLUDING A LINEAR SEMICONDUCTOR OPTICAL AMPLIFIER



_____ 22	6,462,865 B1	10/08/2002	Chu et al.
_____ 23	6,512,629 B1	01/28/2003	Dijaili et al.
_____ 24	6,522,462 B2	02/18/2003	Chu et al.
_____ 25	6,577,654 B1	06/10/2003	Dijaili et al.
_____ 26	6,647,041 B1	11/11/2003	Verma et al.
_____ 27	6,707,600 B1	03/16/2004	Dijaili et al.
_____ 28	6,714,344 B2	03/30/2004	Islam et al.
_____ 29	2002/0001112	01/03/2002	Song
_____ 30	2004/0012845 A1	01/22/2004	Wang
_____ 31	2004/0017604 A1	01/29/2004	DiJaili et al.

Foreign Patent Documents

Examiner Initial*	Document Number	Publication Date	Country or Patent Office	Translation
_____ 32	02000012978A	01/14/2000	Japan	No

Other Documents

(including author, title, pertinent pages, etc.)

Examiner
Initial*

_____ 33	S. Diez et al., <i>All-Optical Switch for TDM and WDM/TDM Systems Demonstrated in a 640 Gbit/s Demultiplexing Experiment</i> , Electronics Letters, Vol. 34, No. 8, pp. 803-805, April 16, 1988.
_____ 34	S. Diez et al., <i>Gain-Transparent SOA-Switch for High-Bitrate OTDM Add/Drop Multiplexing</i> , IEEE Photonic Technology Letters, Vol. 11, No. 1, pp. 60-62, January 1999.
_____ 35	S. Diez et al., <i>Novel Gain-Transparent SOA-Switch for High Bitrate ODTM Add/Drop Multiplexing</i> , ECOC 1998, Vol. 1, pp. 461-462, September 1998.

Examiner:

Date Considered:

Applicant: Jeffrey D. Walker et al.
Serial No.: 10/017,201
Filing Date: December 14, 2001
For: OPTICAL RECEIVER INCLUDING A LINEAR SEMICONDUCTOR OPTICAL AMPLIFIER



Sheet 3 of 4
Confirmation No.: 6333
Att'y Docket No.: 15436.247.45.1.2
Group: 3663

- _____ 36 B. Femier et al., *Fast (3000 ps) Polarization Insensitive Semiconductor Optical Amplifier Switch with Low Driving Current (70 mA)*, Semiconductor Laser Conference, Conference Digest, 14th IEEE International, pp. 130-131, September 21-15, 1992.
- _____ 37 J.E. Fouquet et al., *Compact, Scalable Fiber Optic Cross-Connect Switches*, IEEE, 1999 Digest of the LEOS Summer Topical Meetings, pp. 59-60, 1999.
- _____ 38 M.M. Ibrahim, *Photonic Switch Using Surface-Emitting Laser Diode and AOD*, 16th National Radio Science Conference, NRSC 1999, pp. 1-8, Ain Shams University, Cairo, Egypt, February 23-25, 1999.
- _____ 39 J. Mork et al., *Semiconductor Devices for All-Optical Signal Processing: Just How Fast Can They Go?*, IEEE Lasers and Electro-Optics Society 1999 12th Annual Meeting, LEOS 1999, Vol. 2, pp. 900-901, November 8-11, 1999.
- _____ 40 K. Panajotov et al., *Polarisation Switching in Proton-Implanted VCSELs*, 1999 Digest of the LEOS Summer Topical Meetings, pp. 55-56, July 26-30, 1999.
- _____ 41 B.C. Qui et al., *Monolithically Integrated Fabrication of 2x2 and 4x4 Crosspoint Switches Using Quantum Well Intermixing*, 2000 International Conference on Indium Phosphide and Related Materials, Conference Proceedings, pp. 415-418, May 14-18, 2000.
- _____ 42 J. Scheuer et al., *Nonlinear On-Switching of High Spatial Frequency Patterns in Ring Vertical Cavity Surface Emitting Lasers*, 1999 IEEE LEOS Annual Meeting Conference Proceedings, 12th Annual Meeting, IEEE Lasers and Electro-Optics Society 1999 Annual Meeting, Vol. 1, pp. 123-124, November 8-9, 1999.
- _____ 43 H. Soto et al., *All-Optical Switch Demonstration Using a Birefringence Effect in a Semiconductor Optical Amplifier*, IEEE CLEO, Pacific rim 1999, pp. 886-889, 1999.
- _____ 44 N. Yoshimoto et al., *Spot-Size Converted Polarization-Insensitive SOA Gate with a Vertical Tapered Submicrometer Stripe Structure*, IEEE Photonics Technology Letters, Vol. 10, No. 4, pp. 510-512, April 4, 1998.
- _____ 45 Wolfson et al., *Detailed Theoretical Investigation of the Input Power Dynamic Range for Gain-Clamped Semiconductor Optical Amplifier Gates at 10 Gb/s*, IEEE Photonics Technology Letters, 1998, Vol. 10, No. 9, pp. 1241-1243.

Examiner:

Date Considered:

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609, draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Applicant: Jeffrey D. Walker et al.
Serial No.: 10/017,201
Filing Date: December 14, 2001
For: OPTICAL RECEIVER INCLUDING A LINEAR SEMICONDUCTOR OPTICAL AMPLIFIER



Sheet 4 of 4
Confirmation No.: 6333
Att'y Docket No.: 15436.247.45.1.2
Group: 3663

- _____ 46 F. Robert et al., *All-Optical Set-Rest Operation of a Bistable Semiconductor Laser Intracavity-Coupled to a Vertical-Cavity Surface-Emitting Laser*, IEEE Photonic Technology, Letters, Vol. 12, No. 5, May 2000, pp. 465-467.
- _____ 47 D.B. Shire et al., *Gain Controlled Vertical Cavity Surface Emitting Lasers Coupled with Intracavity In-plane Lasers*, Appl. Phys. Lett. Vol. 66, No. 14, April 3, 1995, pp. 1717-1719.
- _____ 48 Agility Unveils Long-Haul Laser, Light-Reading – The Global Site for Optical Networking, retrieved from internet www.lightreading.com/document.asp, March 30, 2001.
- _____ 49 Wolfson et al., *Detailed Theoretical Investigation of the Input Power Dynamic Range for Gain-Clamped Semiconductor Optical Amplifier Gates at 10 Gb/s*, IEEE Photonics Technology Letters, Vol. 10, No. 9, pp. 1241-1243.

References Cited by Applicants

While the filing of Information Disclosure Statements is voluntary, the procedure is governed by the guidelines of Section 609 of the Manual of Patent Examining Procedure and 37 C.F.R. §§ 1.97 and 1.98. To be considered a proper Information Disclosure Statement, Form PTO-1449 shall be accompanied by a copy of each listed patent or publication or other item of information and a translation of the pertinent portions of foreign documents (if an existing translation is readily available to the applicant), an explanation of relevance of each reference not in the English language, and should be submitted in a timely manner as set out in MPEP Sec. 609.

Examiners will consider all citations submitted in conformance with 37 C.F.R. § 1.98 and MPEP Sec. 609 and place their initials adjacent the citations in the spaces provided on this form. Examiners will also initial citations not in conformance with the guidelines which may have been considered. A reference may be considered by the Examiner for any reason whether or not the citation is in full conformance with the guidelines. A line will be drawn through a citation if it is not in conformance with the guidelines AND has not been considered. A copy of the submitted form, as reviewed by the Examiner, will be returned to the applicant with the next communication. The original of the form will be entered into the application file.

Each citation initialed by the Examiner will be printed on the issued patent in the same manner as references cited by the Examiner on Form PTO-892.

The reference designations "A1," "A2," etc. (referring to Applicant's reference 1, Applicant's reference 2, etc.) will be used by the Examiner in the same manner as Examiner's reference designations "A," "B," "C," etc. on Office Action Form PTO-1142.

W:\15436\247.45.1.2\DFW0000012552V001.doc

Examiner:

Date Considered:

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609, draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.